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SVIS 340 A-2K12

B.Sc. VIth Semester Degree Examination Electronics Optional

				THEFT		on and M Paper -6.		ontrouers				
Time: 3 Hours									Maximum Marks: 80			
Ins	tructi	ons to) Candida	ites :								
	I)	Answer all questions from Section - A										
	2) Answer any five questions from Section 'B'											
	3)	Ans	wer any j	f our qu	estions fro	om Section	'C'					
						Section - A	\				4	
1.	Cho	Choose the correct answers.								(5 ×)	1=5)	
	i)	Resistive transducer are used to measure								`		
		a) Several non electrical quantities.										
		b) Several electrical quantities										
		c) Both (a) and (b)										
		d)	None of	these								
	ii)											
		a)	T	b)	T/10		c)	10T	d)	10/T		
	iii)											
		a)	Two	b)	Three		c)	Four	d)	Six		
	iv)	The	DPTR is	of					•			
		a)	8 bits	b)	16 bits		c)	32 bits	d)	None		
	v)	A TO COOK I'M										
		a)	Two	b)	Four		c)	Six	d)	Eight	. 1	
2.	Fill	ill in the blanks.								(1)	3)	
	i)	Elastic transducer is transducer.							w			
	ii)	In Instrumentation amplifier output voltage is										
	iii)	The 8051 microcontroller has serial port.										
	iv)	In DIV AB, the quotient will be placed in and the reminder									e Olivone	
	v)											
2 37 T	C 240	A DE	12 /2012			(1)				[Cont	d	
			コース・ナル 特別を									

3. State True or False

 $(1 \times 5 = 5)$

- i) LVDT is a modified version of plunger type sensor.
- ii) The O/P of an differentiator is a spike wave when excited by square wave.
- iii) Microcontrollers are normally more expensive than microprocessor
- iv) In MULAB, the low order byte of the 16 bit product is left in the B register.
- v) The output of DAC 0808 is ideal to drive a motor.

Section - B

4. Explain in brief thermisters.

 $(5 \times 5 = 25)$

- 5. What is strain gauge? Explain basic principal of strain gauge.
- 6. What is active filter? Explain first order wide band pass filter.
- 7. Briefly explain peak detector.
- 8. Write the difference between micro processor and micro controller.
- 9. Write a programme to add two 16 bit numbers. The numbers are 3CE7 and 388 D. Place the Sum in R_7 and R_6 .
- 10. Explain, Timer 0, Timer 1 of 8051 micro controller.

Section - C

- 11. What is transducer? Explain pressure transducer and Piezo electronic pressure transducer.
- 12. What is rectification? Explain precision rectifier using Op-Amp.
- 13. Explain the architecture of 8051.
- 14. Explain the Arithmetic instructions of 8051. Microcontroller.
- 15. What is interfacing? Explain DAC interfacing using 8051 micro controller.
- 16. Write short notes on any two
 - a) LVDT
 - b) Bourdon tubes
 - c) Sample and hold Circuits
 - d) Integrator.

 $(10 \times 4 = 40)$

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